

IN THE CLAIMS:

Claims 1-22 (Cancelled).

Claim 23. (New) A method for measuring at least one vehicle wheel alignment angle from a vehicle wheel hub assembly, comprising:

mounting a wheel alignment sensor to a wheel rim and tire assembly secured to said vehicle wheel hub assembly;

obtaining a first measurement of at least one alignment angle with said mounted wheel alignment sensor;

removing said wheel alignment sensor from said wheel rim and tire assembly;

removing said wheel rim and tire assembly from said vehicle wheel hub assembly;

mounting said wheel alignment sensor to said vehicle wheel hub assembly; and

obtaining a second measurement of said at least one alignment angle with said mounted wheel alignment sensor;

calculating an offset angle using said first measurement and said second measurement, said offset angle representative of an angle variation between a wheel-mounted sensor angle measurement and a vehicle wheel hub assembly-mounted sensor angle measurement; and

subtracting said calculated offset angle from at least one predetermined specification value for said at least one alignment angle to offset said specification value, wherein one or more subsequent vehicle wheel hub assembly-mounted sensor angle measurements of said at least one alignment angle may be compared with said offset specification value to determine a required wheel alignment adjustment.

Claim 24. (New) A method for measuring at least one vehicle wheel alignment angle from a vehicle wheel hub assembly, comprising:

mounting a wheel alignment sensor to a wheel rim and tire assembly secured to said vehicle wheel hub assembly;

obtaining a first measurement of at least one alignment angle with said mounted wheel alignment sensor;

removing said wheel alignment sensor from said wheel rim and tire assembly;

removing said wheel rim and tire assembly from said vehicle wheel hub assembly;

mounting said wheel alignment sensor to said vehicle wheel hub assembly; and

obtaining a wheel-off measurement of said at least one alignment angle with said mounted wheel alignment sensor;

obtaining at least one subsequent wheel-off measurement of said at least one alignment angle with said mounted wheel alignment sensor;

calculating an offset angle using said wheel-off measurement and said at least one subsequent wheel-off measurement, said offset angle representative of an angle alteration to said at least one alignment angle; and

utilizing said calculated offset angle to determine a necessary alignment angle adjustment.

Claim 25. (New) The method of Claim 24 for measuring at least one vehicle wheel alignment angle from a vehicle wheel hub assembly wherein said utilizing step further includes compensating said first measurement by said calculated offset angle

for display to an operator in such a manner so as to appear as if obtained by a wheel-mounted sensor.

Claim 26. (New) The method of Claim 25 for measuring at least one vehicle wheel alignment angle from a vehicle wheel hub assembly wherein said utilizing step further includes comparing said compensated first measurement with a predetermined specification value for said at least one alignment angle.

Claim 27. (New) The method of Claim 24 for measuring at least one vehicle wheel alignment angle from a vehicle wheel hub assembly wherein said utilizing step further includes subtracting said calculated offset angle from at least one predetermined specification value for said at least one alignment angle to compensate said specification value, wherein said first measurement of said at least one alignment angle may be compared with said compensated specification value to determine a necessary alignment angle adjustment.